Application No.: 10/605,571 Docket No.: 22040-00020-US

AMENDMENTS TO THE CLAIMS

 (Currently amended) A multistaged amplification circuit comprising:

a differential amplification circuit, equipped with n differential amplifiers that are connected in a multistaged manner and that amplify and output an input signal from a previous stage to a following stage;

a plurality of transistors connected to said n differential amplifiers that are connected in a multistaged manner, and connected to one constant current source by a current mirror; and

wherein said plurality of transistors are arranged collectively on the side of arranged near said constant current source.

- 2. (Original) The multistaged amplification circuit according to claim 1, wherein said constant current source is arranged on either an input side or an output side of said differential amplification circuit.
- 3. (Original) The multistaged amplification circuit according to claim 1, wherein said constant current source is arranged almost in the center of said n differential amplifiers connected in a multistaged manner.
- 4. (Currently amended) The multistaged amplification circuit according to claim 1, wherein said plurality of transistors are collectively grounded to the same place via separate ground lines.
- 5. (Currently amended) A multistaged amplification circuit, comprising:

a differential amplification circuit, equipped with n differential amplifiers that amplify and output an input signal from a previous stage to a following stage, and that are connected in a multistaged manner;

Application No.: 10/605,571

Docket No.: 22040-00020-US

a plurality of transistors connected to a plurality of differential amplifiers and one constant current by a current mirror for every group into which said n plurality of differential amplifiers are divided; and

wherein said plurality of transistors are arranged collectively on the side of arranged near said constant current source for every said group.

6. (Currently amended) A multistaged amplification circuit comprising:

a differential amplification circuit, equipped with n differential amplifiers that amplify and output an input signal from a previous stage to a following stage, and that are connected in a multistaged manner;

a plurality of transistors connected to said n differential amplifiers that are connected in a multistaged manner, and that are connected to one constant current source by a current mirror; and

wherein said plurality of transistors are <u>collectively</u> grounded to the same place via separate ground lines.

7. (New) A multistaged amplification circuit comprising:

a differential amplification circuit, equipped with n differential amplifiers that are connected in a multistaged manner and that amplify and output an input signal from a previous stage to a following stage;

a plurality of transistors connected to said n differential amplifiers that are connected in a multistaged manner, and connected to one constant current source by a current mirror; and

a plurality of separate ground lines,

Application No.: 10/605,571 Docket No.: 22040-00020-US

wherein each of said plurality of transistors is connected to a common ground node by a dedicated one of the plurality of separate ground lines.

- 8. (New) The multistaged amplification circuit of claim 7, wherein the plurality of separate ground lines collectively suppress a distributed voltage drop.
 - 9. (New) A multistaged amplification circuit, comprising:

a differential amplification circuit, equipped with n differential amplifiers that amplify and output an input signal from a previous stage to a following stage, and that are connected in a multistaged manner;

a plurality of transistors connected to a plurality of differential amplifiers and one constant current by a current mirror for every group into which said n plurality of differential amplifiers are divided; and

means for suppressing a ground line distributed voltage drop associated with each of the plurality of transistors.

- 10. (New) The multistaged amplification circuit of claim 9, wherein the means for suppressing a ground line distributed voltage drop reduces electrical noise.
- 11. (New) The multistaged amplification circuit of claim 9, wherein the means for suppressing a ground line distributed voltage drop preserves linearity of an amplified signal.
- 12. (New) The multistaged amplification circuit of claim 9, wherein the means for suppressing a ground line distributed voltage drop stabilizes a high frequency operating characteristic of the multistaged amplification circuit.
- 13. (New) The multistaged amplification circuit of claim 9, wherein the means for suppressing a ground line distributed voltage drop reduces electrical

Application No.: 10/605,571 Docket No.: 22040-00020-US

noise, preserves linearity of an amplified signal, and stabilizes a high frequency operating characteristic of the multistaged amplification circuit.

14. (New) The multistaged amplification circuit of claim 9, wherein the means for suppressing a distributed voltage drop comprises a plurality of separate ground lines,

wherein each of said plurality of transistors is connected to a common ground node by a dedicated one of the plurality of separate ground lines.